

(19) 世界知的所有権機関
国際事務局(43) 国際公開日
2005年3月3日 (03.03.2005)

PCT

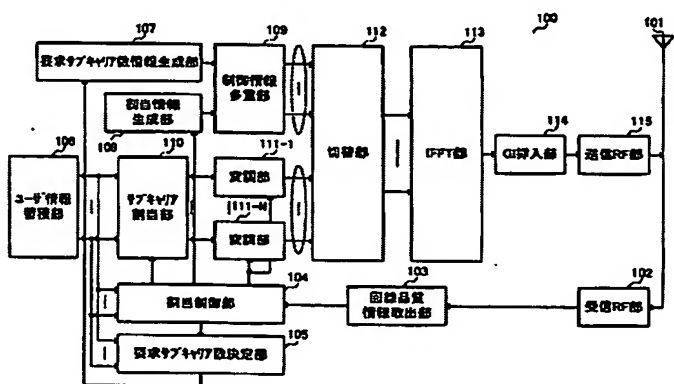
(10) 国際公開番号
WO 2005/020489 A1

- (51) 国際特許分類: H04J 11/00
(21) 国際出願番号: PCT/JP2004/012311
(22) 国際出願日: 2004年8月20日 (20.08.2004)
(25) 国際出願の言語: 日本語
(26) 国際公開の言語: 日本語
(30) 優先権データ:
特願2003-295972 2003年8月20日 (20.08.2003) JP
(71) 出願人 (米国を除く全ての指定国について): 松下電器産業株式会社 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) [JP/JP]; 〒5718501 大阪府門真市大字門真1006番地 Osaka (JP).
(72) 発明者: および
(75) 発明者/出願人 (米国についてのみ): 程俊 (CHENG, Jun), 西尾昭彦 (NISHIO, Akihiko).
- (74) 代理人: 鷺田 公一 (WASHIDA, Kimihito); 〒2060034 東京都多摩市鶴牧1丁目24-1 新都市センタービル5階 Tokyo (JP).
(81) 指定国 (表示のない限り、全ての種類の国内保護が可能): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
(84) 指定国 (表示のない限り、全ての種類の広域保護が可能): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ヨーロッパ (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,

[続葉有]

(54) Title: RADIO COMMUNICATION APPARATUS AND SUBCARRIER ASSIGNMENT METHOD

(54) 発明の名称: 無線通信装置及びサブキャリア割り当て方法



- 107... REQUEST SUBCARRIER NUMBER INFORMATION GENERATING PART
108... ASSIGNMENT INFORMATION GENERATING PART
109... CONTROL INFORMATION MULTIPLEXING PART
112... SWITCH PART
113... IFFT PART
114... GI INSERTING PART
115... TRANSMISSION RF PART
106... USER INFORMATION STORING PART
110... SUBCARRIER ASSIGNING PART
111-1... MODULATING PART
111-N... MODULATING PART
104... ASSIGNMENT CONTROL PART
105... REQUEST SUBCARRIER NUMBER DECIDING PART
103... LINE QUALITY INFORMATION EXTRACTING PART
102... RECEPTION RF PART

(57) Abstract: A radio communication apparatus wherein the amount of control information to be transmitted is reduced so as to improve the communication efficiency. In the apparatus, a line quality information extracting part (103) extracts CQI from received signals. An assignment control part (104) assigns, based on the CQI and request transmission rate information of the communication terminal apparatus of each user, a subcarrier to each communication terminal apparatus such that the request transmission rate of each communication terminal apparatus is satisfied, and further selects a modulation scheme. A request subcarrier number deciding part (105) decides, based on the request transmission rate information of the communication terminal apparatus of each user, the number of subcarriers to be assigned to the communication terminal apparatuses such that the request transmission rate of each communication terminal apparatus is satisfied. A request subcarrier number information generating part (107) generates information of the number of the subcarriers assigned to the communication terminal apparatuses. A subcarrier assigning part (110) assigns packet data to the selected subcarriers. Modulating parts (111-1 to 111-N) perform adaptive modulations of the packet data assigned to the subcarriers.

[続葉有]

BEST AVAILABLE COPY